PRIMERGY RX100 S7p

System configurator and order-information guide

May 2012

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Change report

PRIMERGY Server

Instructions

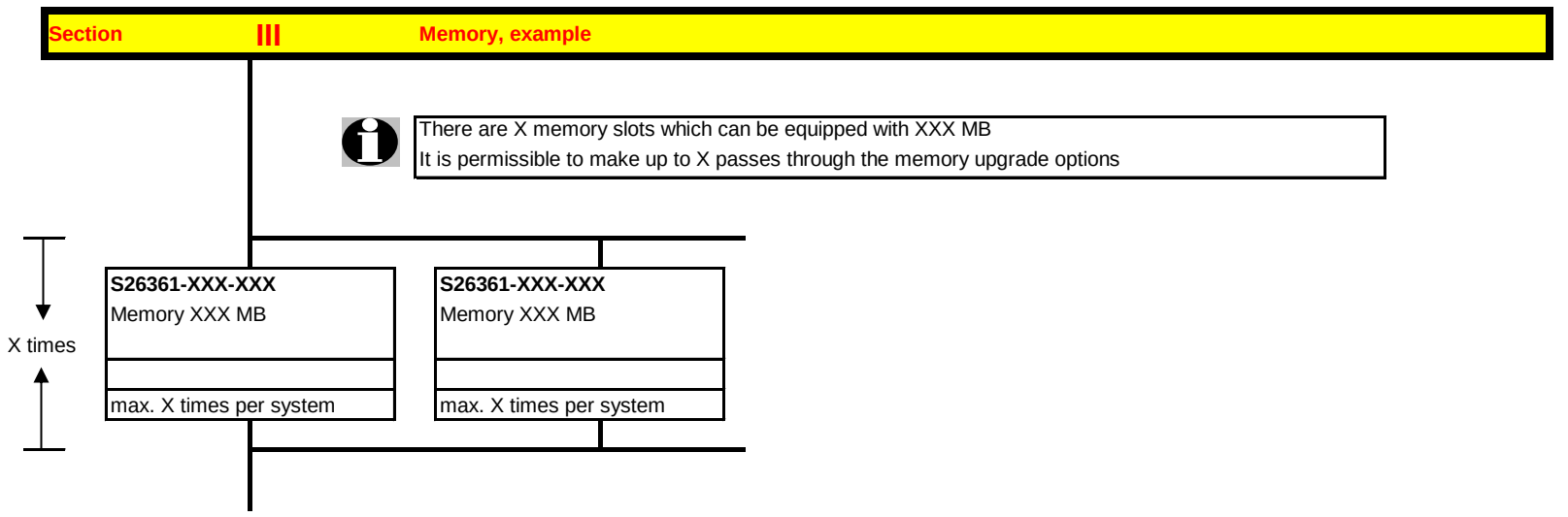
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/System-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.


Section III Memory, example
There are X memory slots which can be equipped with XXX MB
It is permissible to make up to X passes through the memory upgrade options
X times
S26361-XXX-XXX
Memory XXX MB
max. X times per system
S26361-XXX-XXX
Memory XXX MB
max. X times per system

In one chapter you can only select as many components (here 4x) as the arrow indicates.

Please note that there are information symbols which indicate necessary information.

Further information in the internet see:

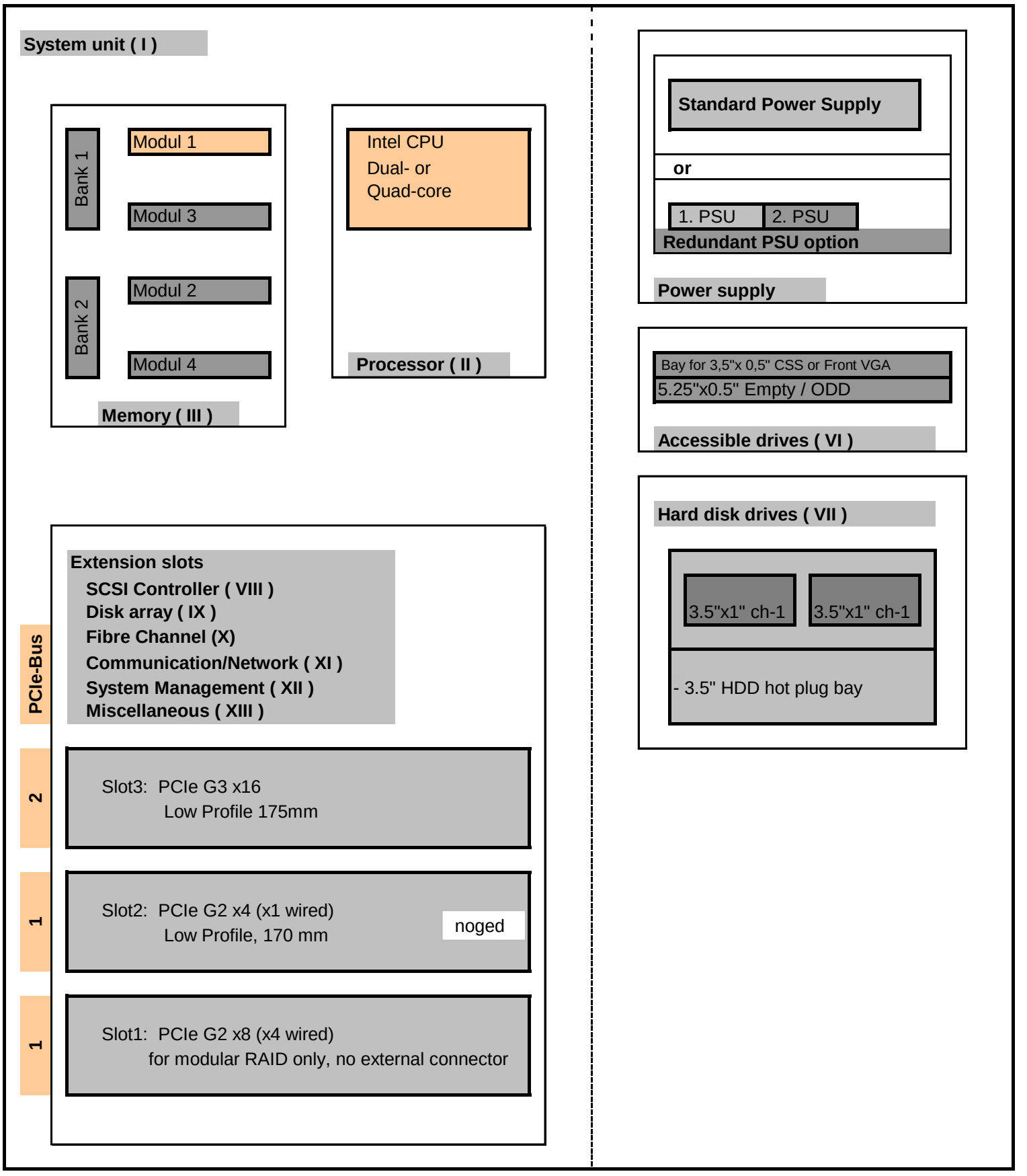
http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

Prices and availability see price list and PC-/System-Architect.
Subject to change and errors excepted.

Configuration diagram PRIMERGY RX100 S7p

with 3.5" Hard disk drives



Key:

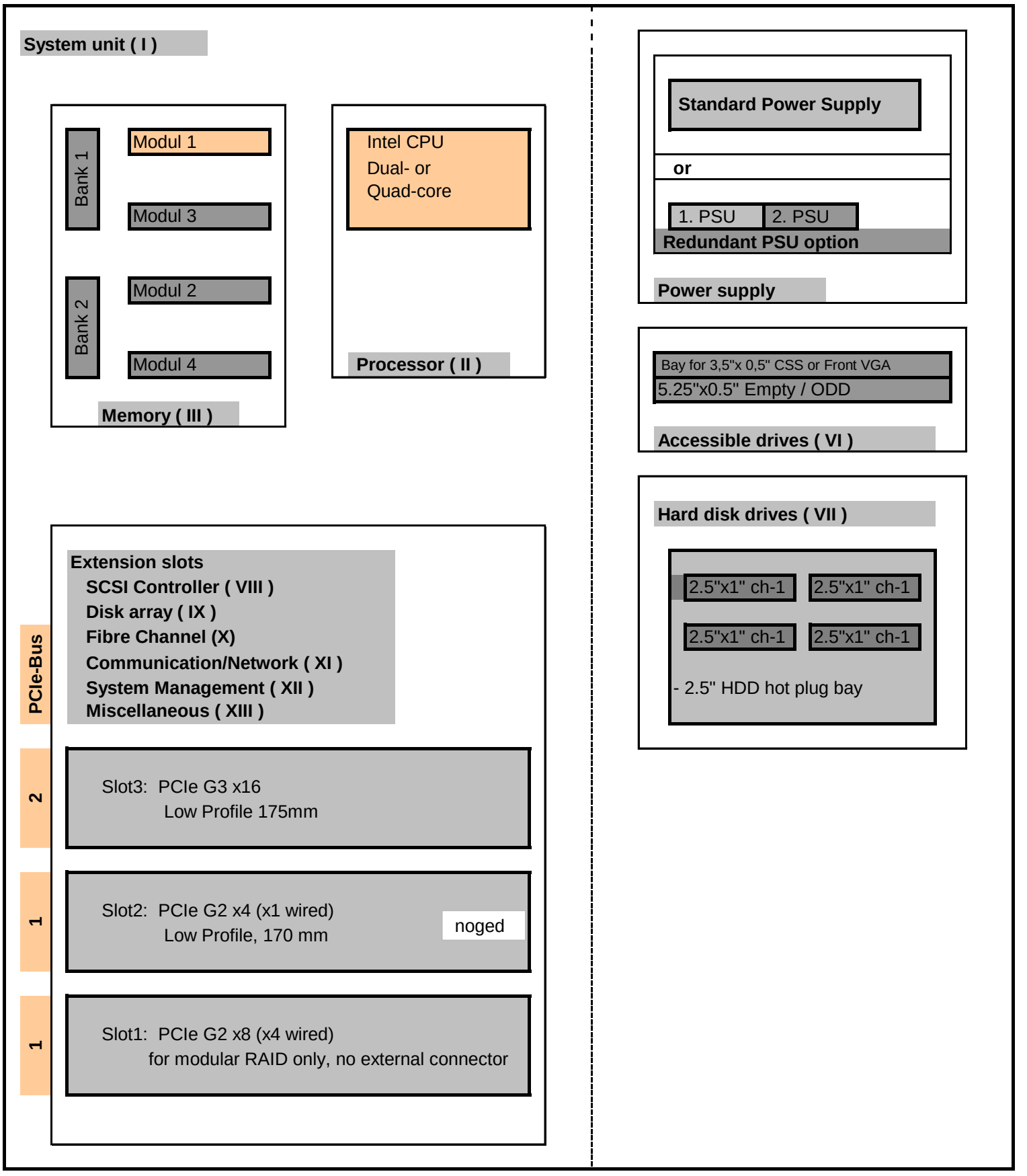
Included in basic unit

Option

One CPU (first CPU) and one memory (first memory) has to be selected for an orderable basic unit.

Configuration diagram PRIMERGY RX100 S7p

with 2.5" Hard disk drives



Key:

Included in basic unit

Option

One CPU (first CPU) and one memory (first memory) has to be selected for an orderable basic unit.

Start PRIMERGY RX100 S7

SW - Configurator 32 bit

with OEM-Software
for PRIMERGY Server

VMware-Software
- VCMS VirtualCenter Management Server

VMWare restrictions
1 onboard LAN is supported
SATA RAID is not supported

without OEM-Software
for PRIMERGY Server

OEM-SW is bound to HW and is not allowed to be ordered separately.

For all SW products please refer to the corresponding software configurator accessible via the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.

Microsoft - Windows Server 2008 Server Licenses
- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
- Windows Server 2008 Foundation
- Windows Web Server 2008

Microsoft - Windows Server 2008 Client Access Licenses
- Windows Server 2008 Device CAL
- Windows Server 2008 User CAL
- Windows Server 2008 Remote Desktop Services Device CAL
- Windows Server 2008 Remote Desktop Services User CAL

PRIMECLUSTER *)
- Clustering
- Load Balancing

Linux - Software: **)
- Open Enterprise Server ***)
- SuSE Linux ES (OEM): LO
- SuSE Linux ES (Support): LS
- Red Hat EL (OEM): LO
- Red Hat EL (Support): LS

Manageability Software: V)**
- iRMC advanced Pack
- RemoteView Software
- RemoteDeploy
- Altiris Server Deployment

Backup-Software / Application-Software: U
- ARCserve
- openSM2

Details eg. version numbers are published in the separate SW-Configurator

***)** Pay attention to the PRIMECLUSTER release and ordering information in the Extranet

**) Pay attention to release and order information in PRINCE -> Operating System

They find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx
for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

Continue with PRIMERGY HW configurator

Start PRIMERGY RX100 S7p

SW - Configurator EM64T

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

OEM-SW is bound to HW and is not allowed to be ordered separately.

For all SW products please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software, URL see below.

	Microsoft - Software: W
only EM64T	- Windows Server 2008, Standard x64 Edition Enterprise x64 Edition - Additional loose Client-Access-Lizenzen (CALs)

	Linux - Software *) **)
only x86_64	- SuSE Linux ES (OEM): LO - SuSE Linux ES (Support): LS - Red Hat EL (OEM): LO - Red Hat EL (Support): LS

	Manageability Software: V)**
only EM64T	- RemoteView Software - RemoteDeploy - IRMC advanced Pack

Details eg. version numbers are published in the separate SW-Configurator

***)** Pay attention to the PRIMECLUSTER release and ordering information in the Extranet

****)** Pay attention to release and order information in PRINCE -> Operating System

You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx
for partners: https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx

Continue with PRIMERGY HW configurator

Start PRIMERGY RX100 S7p

Section 1 | Basic unit

System unit including:

*** 1U Housing**
* **1 power supply** (Standard Ps with 300W or hot plug PSU with 450W)
*** Fans**
- Fans for Power Supply and Chassis
4x non hot-plug fans in standard PSU base unit, 5 fans with 1 of 5 redundancy in hotplug PSU base unit

*** Drives / Bays**
- 2 bays 3.5" for hot-plug HDDs **or**
- 4 bays 2.5" for hot-plug HDDs
- 1 bay 0.5" height for optional SATA ODD
- 1 bay 0,5" height for optional CSS-modul (Customer Self Service) or Front VGA / front Service LAN

Options:

* One 0,5" bay can be configured with an optional CSS (Customer Self Service) modul **or**
For indication of a failed component via LED`s
Simultaneously components are marked which can be replaced by the customer.
This LEDs can be dispalyed during service even without mains connection.
Front VGA and / or Front Service LAN RJ45

Systemboard with:
- Mono Processor Board with LGA1155 socket and Intel® C202 (codenamed Bromolow Cougar Point Essential) (s. section II)
- 1x PCIe Gen3 x16 / 1x PCIe Gen2 x4 (x1 wired) + 1x PCIe x8 (x4 wired) Gen2 Slot for modular RAID
- 4 memory slots (s. section III)
- SATA RAID on-board or SAS RAID controller in the dedicated slot (s. section IX)
- 2x 1 Gbit Ethernet LAN Intel 82579 (Lewisville) + 82574 (Hartwell) on-board with ToE and iSCSI boot integrated in System BIOS as selectable option
- **iRMC S3** (integrated Remote Management Controller) on-board server management controller with dedicated 10/100/1000 Mbit Service LAN-port and integrated graphics controller
The Service LAN-port can be switched alternatively on standard Gbit LAN port 1 (shared mode)
- Graphics Controller integrated in iRMC S3 (integrated Remote Management Controller):
1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz
(1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)

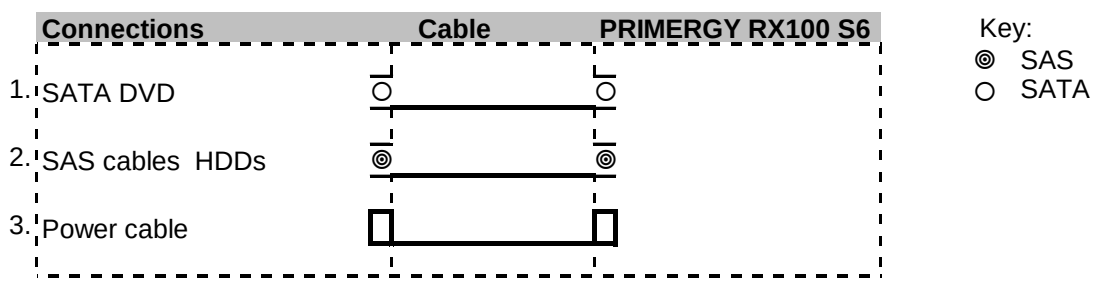
Interfaces:
- 1x RS-232-C (serial, 9 pins) (usable for BMC or OS or shared)
- 1x VGA (15 pins), 1x Front VGA optional
- 7x USB 2.0 (UHCI) with 480MBit/s (2x front, 4x back, 1x internal)
- 2x LAN RJ45 (1x shared), 1x Service-LAN RJ45, 1 Service LAN (front) optional

Cables:
1. SATA cable for ODD
2. SATA/SAS cables for up to 4 HDDs

Software:
- ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates
- Documentation engl. (multilingual on CD)

Note: Rack Mounting kit and Power Cord for PRIMERGY RX100 S7p is not included in the basic unit and has to be configured separately

Cables included in basic unit



A

A

Basic unit (for 19" racks) with SATA RAID
(can be upgraded by Modular SAS RAID)
without CPU and Memory

- One CPU (first CPU) has to be configured additionally for a base configuration

- One memory kit has to be configured for a base configuration

SAS/SATA LFF (3.5") version with:
- 2-port SAS backplane for 2 hot plug LFF (3.5") SAS/SATA HDDs incl. cables for connection to the onboard SATA or plug in SAS controller

- SAS/SATA LFF (3.5") Base Unit

standard PSU	**S26361-K1385-V103**
hot plug PSU / red. Fan	**S26361-K1385-V203**

SAS/SATA SFF (2.5") version with:
- 4-port SAS backplane for 4 hot plug SFF (2.5") SAS/SATA HDDs incl. cables for connection to the onboard SATA or plug in SAS controller

- SAS SFF (2.5") Base Unit

standard PSU	**S26361-K1385-V303**
hot plug PSU / red. fan	**S26361-K1385-V403**

S26361-F3552-E1
TPM Module
Trusted Platform Module on Motherboard
Use according to import restrictions
max. 1x per system

S26113-F575-E10
2nd power supply module (PSU)
450W / 94% efficiency (platinum)
for redundancy of BU V203/V403
occupies one bay for hot plug power supply
max. 1x per system

For Base Units with hot plug PSU only (V203, V403)

For later conversion of basic units with standard power supply to hot plug power supply, the following kit is available:

1.) hot plug PS upgrade kit, incl. 1 PS module + Fan + PDU + PSU Cage (no power cord included) Conversion standard into hot plug PS After upgrade, the Std. PSU can not be used anymore	**S26113-F547-L10**
2.) Supplementary power supply module for redundancy or repair (**no power cable included!**)	**S26113-F575-L10**
3.) Please order appropriate power cord additionally:	
Powercord for rack, 4m, grey, IEC320 C13->C14 connect.	**T26139-Y1968-L10**
Power Cord USA / Canada, 1.8m, grey	**T26139-Y1742-L10**

PRIMECENTER Rack

S26361-F2735-E175
RMK-F1_DI_CMA_QRL_LV
telescopic drop-in rail, full extr.
1-hand-mounting
RMK - 1 pair consisting of
- vario carrier length variable with quick release lever support
- telescopic drop-in rails with CMA adapter
1x per system

S26361-F2735-E111
No Rackmount-Kit option
Only for loose deliveries
No mounting in racks possible
max. 1x per system

B

S26361-F2735-L175
RMK-F1_DI_CMA_QRL_LV
for loose delivery

S26361-F2735-L10
Adapter angle PC/DC-Rack, till 50Kg
necessary for mounting RMKs in asymmetrical racks

S26361-F2735-L7
Lateral cable management
can only be mounted
in asymmetrical PRIMECENTER
S2 or new M1 racks in 1U above RMK

S26361-F4530-E11
Mounting 1U server in asymmetrical
racks with 1U support bracket

S26361-F4530-E10
Mounting in symmetrical racks
(no support bracket needed)

S26361-F2735-E81
Cable mgmt. arm for 1U Server
- for Fujitsu PRIMECENTER and PRIMECENTER M1 racks
- for 3rd Party racks
1x per system

Cable Management Arm (CMA)
can only be used for FTS RMKs
with CMA adapter

S26361-F2735-L81
Cable management arm for 1U Server
for loose delivery

S26361-F2735-L7
Lateral cable management (optionally)
can only be mounted
in asymmetrical PRIMECENTER
S2 or new M1 racks in 1U above RMK

S26361-F1647-E302
Installation ex works for one server or subsystem.
Hereby the rack will be delivered completely pre-mounted and all wired connections are tested.
With PCR S2 12U, 24U, 38U and PRC M1 16U, 24U, 42U:
Systems and components will be delivered installed in the rack
With PCR S2 racks 46U:
Systems and components will be delivered separately
To be ordered only together with a PRIMECENTER rack
PCR S2 e.g. S26361-K826-V10x
new PCR M1 e.g. S26361-K827-Vxxx
refer PCR S2 or M1 rack configurator
max. 1x per System

"Rack-mounting ex factory"
This service is to be ordered once per installable server/storage subsystem, in order to get the server/storage subsystem mounted into the racks.
In case of the 46 U PCR S2 this service has to be ordered, to get the mounting kits and the cables installed.

PRIMERGY Classic 19" rack is not supported

B

B

Section 2 II Processor

Note: The CPU is not included in the base unit and has to be configured separately.**

One of following CPU´s has to be selected for an orderable basic unit		
Dual-Core CPU`s		
- 1x 64-bit Intel Celeron (2MB SLC), Pentium (3MB SLC) or Core-i3 (3MB TLC) occupies socket for one CPU		
Celeron		
Celeron G530 2.40GHz 2MB 2C/2T 1066MHz (65W)	**S26361-F3579-E253**	on special release
Pentium		
tbd		as soon as available
Core i3		
Core i3-3220 3.30GHz 3MB 2C/4T 1333MHz (65W)		as soon as available
Xeon E3-12xxv2		
- 1x 64-bit Intel Xeon UP (8MB shared TLC = Third Level Cache) Hyper-Threading (HT not with X3430); 1333 MHz DDR3 Bus and heat pipe occupies socket for one CPU		
Xeon E3-1220v2 3.10GHz 8MB 4C/4T 1600MHz Turbo (69W)	**S26361-F3580-E322**	
Xeon E3-1230v2 3.30GHz 8MB 4C/8T 1600MHz Turbo (69W)	**S26361-F3580-E323**	
Xeon E3-1240v2 3.40GHz 8MB 4C/8T 1600MHz Turbo (69W)	**S26361-F3580-E324**	on special release
Xeon E3-1270v2 3.50GHz 8MB 4C/8T 1600MHz Turbo (69W)	**S26361-F3580-E327**	
Xeon E3-1280v2 3.60GHz 8MB 4C/8T 1600MHz Turbo (69W)	**S26361-F3580-E328**	on special release
Xeon Power Optimized		
- 1x 64-bit Intel Xeon LV UP (3/8MB shared TLC = Third Level Cache) Hyper-Threading (HT); 1600 MHz DDR3 Bus and heat pipe occupies socket for one CPU		
Xeon E3-1220Lv2 2.30GHz 3MB 2C/4T 1600MHz Turbo (17W)	**S26361-F3580-E312**	
Xeon E3-1265Lv2 2.50GHz 8MB 4C/8T 1600MHz Turbo (45W)	**S26361-F3580-E316**	

1x

Section 3 III Memory

There are 2 memory banks with 2 DIMM slots each.

Single channel memory configuration allow maximum flexibility:
Additional memory can be configured as single memory modules.

Dual channel memory configurations for maximum performance:
For optimum performance memory has to be configured in pairs of memory modules with identical size.

max. 32GB unbuffered DDR3 RAM for UDIMMs with 8GB moduels

Note: Memory is not included in the base unit and has to be configured separately, min 1x.**

- One **DDR3- unbuffered** ECC memory module, 1.5V	
2GB (1x2GB) 1Rx8 DDR3-1600 U ECC	**S26361-F3719-E513**
4GB (1x4GB) 2Rx8 DDR3-1600 U ECC	**S26361-F3719-E514**
8GB (1x8GB) 2Rx8 DDR3-1600 U ECC	**S26361-F3719-E515**
Choose up to 4 order codes above.	

The delivered memory module can be LV, but will be operated at 1.5V

4x

Section 4 IV Riser Card

Two riser cards are
Included in basic unit

Section 5 V Graphics

Graphics Controller integrated in iRMC S3 (integrated Remote Management Controller):
1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz
(1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)

1x

Opt. Front VGA + Service LAN
Please refer to Sys.Manag. XII

Optional Front VGA
only possible for
onboard graphics

as soon as available

S26361-F2748-E637
PY VGA LP card 512MB PCI-e x1
NVIDIA NVS300 512 MB PCIe-x1
Connectors: 1x LFH 59 cable kit for 2x DVI or 2x VGA cable kits included
Dual head + professional 2-D + 3-D supported for Windows OS native driver support for Linux OS
low profile bracket
max. 1x per system

S26361-F2748-L637
PY VGA LP card 512MB PCI-e x1
for loose delivery

C

Section VI Energy Star

S26361-F3301-E112
RX100 S7 E-Star Fam2
for all 69W 4Core CPUs with std. PSU
Limits configuration in accordance with Energy Star requirements
max. 1x per system

The following order components out of the specific sections are allowed together with RX100 S7p E-Star Fam2:

SATA/SAS LFF (3.5") Base Unit with std PSU	S26361-K1385-V103

Quad-Core CPU`s	
Xeon E3-1220v2 3.10GHz 8MB 4C/4T 1333MHz Turbo (69W)	**S26361-F3580-E322**
Xeon E3-1230v2 3.30GHz 8MB 4C/8T 1333MHz Turbo (69W)	**S26361-F3580-E323**
Xeon E3-1240v2 3.40GHz 8MB 4C/8T 1333MHz Turbo (69W)	**S26361-F3580-E324**
Xeon E3-1270v2 3.50GHz 8MB 4C/8T 1333MHz Turbo (69W)	**S26361-F3580-E327**
max. 1x per system	

Unbuffered DIMMs (1.5V)	
2GB (1x2GB) 1Rx8 DDR3-1600 U ECC	**S26361-F3719-E513**
4GB (1x4GB) 2Rx8 DDR3-1600 U ECC	**S26361-F3719-E514**
8GB (1x8GB) 2Rx8 DDR3-1600 U ECC	**S26361-F3719-E515**
max. 4x per system	

DVD & tape Drives	
DVD-RW supermulti slim SATA	**S26361-F3269-E2**
Blu-ray Triple Writer slim SATA	**S26361-F3641-E2**
max. 1x per system	

RAID Controller	
RAID Ctrl SAS 6G 8port internal	**S26361-F3554-E8**
max. 1x each per system	

LAN Controller	
Gigabit Ethernet Controller 1000TX	**S26361-F3516-E201**
Gigabit Ethernet Controller Dual 1000TX	**S26361-F3610-E202**
max. 1x each per system	

Business Critical (BC) SATA 6Gb/s HD 3.5"	
500GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E500
1000GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E100
2000GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E200
3000GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E300
max. 2x per system	

C

Section 6 VII Accessible drives

Setup PRIMERGY RX100 S7p by ServerStart is supported with following configurations:
no DVD, no CD: remote installation only (PXE service & DHCP server required)
built in DVD or USB DVD: UNC Network share reachable or USB Floppy or MemoryBird connected

If installation is done locally, make sure you have USB stick available for driver installation.

Following USB Components are available	
1) USB DVD SM / Blu-Ray	
External SuperMulti Drive	S26341-F103-L126
External Blu-Ray Drive	S26341-F103-L127
2) USB Mouse:	S26381-K430-L100
Laser Moue USB/PS2 Combo	
3) USB Sticks:	
MyUSBS A910 8GB, MLC Flash	S26391-F6048-L208
MyUSBS A910 16GB, MLC Flash	S26391-F6048-L216

	on special release		as soon as available
S26361-F3269-E2	**S26361-F3718-E1**		**S26361-F3641-E2**
DVD-RW supermulti slim SATA	DVD-ROM slim		Blu-ray Triple Writer slim SATA
all formats, DUAL/DL, DVD-RAM only W2K, W3K and Linux	all formats, DUAL/DL, DVD-RAM		6x BD-RW, 8x DVD, 24x CD BD DL and all CD/DVD formats
0.5 x 5.25", black bezel	0.5 x 5.25", black bezel		0.5 x 5.25"
max. 1x per system	max. 1x per system		max. 1x per system

D

D

Section 7 VIII Hard disk drives

Configurations with Eco SATA can only be mixed with BC SATA HDD type
SAS and BC SATA drives with the same size can be mixed, but not used in one logical RAID volume

SAS/SATA LFF (3.5") Base Units: SAS HDDs Require SAS Controller! see section "internal Disk Array"

There is a 6 port SATA controller in the Base Unit for connection of up to 2 SATA LFF (3.5") hard disks
For up to 2 LFF SAS hard Drives, you must configure 1 of 3 different SAS controller

2x

Economy SATA 6Gb/s HD 3.5" with hot plug/hot replace tray	
250GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3700-E250
500GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3700-E500

SAS 6Gb/s 3.5" with hot plug/hot replace tray	
300GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4005-E530
450GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4005-E545
600GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4005-E560
max. 2x per system	

SAS HD requires SAS Controller

Business Critical (BC) SATA 6Gb/s HD 3.5" with hot plug/hot replace tray	
500GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E500 ★
1000GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E100 ★
2000GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E200 ★
3000GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3670-E300 ★
max. 2x per system	

SAS / SATA SFF (2.5") Base Units: SAS HDDs Require SAS Controller! see section "internal Disk Array"

There is a 6 port SATA controller in the Base Unit for connection of up to 4 SATA SFF (2.5") hard disks
For up to 4 SFF SAS hard Drives, you must configure 1 of 3 different SAS controller

4x

as soon as available

SSD SATA 3Gb/s HD 2.5" with hot plug/hot replace tray	
100GB	S26361-Fxxxx-E100
200GB	S26361-Fxxxx-E200
400GB	S26361-Fxxxx-E400
max. 4x per base unit	

Business Critical (BC) SATA 6Gb/s HD 2.5" with hot plug/hot replace tray	
250GB 7.200rpm,<10,5ms, 8MB Cache	S26361-F3708-E250
500GB 7.200rpm,<10,5ms, 8MB Cache	S26361-F3708-E500
1000GB 7.200rpm,<10,5ms, 8MB Cache	S26361-F3708-E100
max. 4x per base unit	

SAS 6Gb/s 2.5" with hot plug/hot replace tray	
300GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4482-E130
450GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4482-E145
600GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4482-E160
900GB 10000rpm,<4,5ms, 8MB Cache	S26361-F4482-E190
73GB 15krpm,<4,5ms, 8MB Cache	S26361-F4482-E573 (EOL) as long as in stock
146GB 15krpm,<4,5ms, 8MB Cache	S26361-F4482-E514
300GB 15krpm,<4,5ms, 8MB Cache	S26361-F4482-E530
max. 4x per base unit	

configuration of SAS-HDDs requires SAS RAID controller

E

F

Section 8 IX SCSI/SAS-Controller SCSI/SAS-Controller Low Profile

Slot suitable for Low Profile PCIe

2 x PCIe G2 x16 / x4 (wired x1)

SCSI-controller for external drives and peripheral devices

2x

S26361-F3270-E201
SCSI U320 Controller
Adaptec SCSI Card 29320LPE
PCIe x1, Low Profile
int: LVD HD68 ext: VHDCI 68pin
max. 1x per system

Only released for Windows OS **Only released for external backup (LT20).** All controllers for the connection of external storage systems are delivered without cables. For the configuration of external cabling see the configurator for external storage systems.
Can be installed in Slot 3 only (PCIeG2 x16)

External 4-port SAS-controller for external SAS Disk Array

S26361-F3593-E201
RAID Ctrl SAS 6G 8port external
LSI MegaRAID SAS9280-8e 512MB Cache with ECC RAID 0, 1, 10, 5, 50, 6 & 60 **without iBBU** SAS 6Gb/sec 8 port external PCIe x4, MD2 form factor low profile bracket
max. 1 per system

S26361-F3257-E255
Cache Battery Backup Unit with 55cm cable set
max. 1x per Controller

Only one BBU per System possible, either for MegaRAID SAS 9280 or for MegaRAID SAS 2108
L-Order-Number is: S26361-F3257-L210

SAS controller for external backup drives

S26361-F3271-E201
SAS Controller 3Gb/s 8 port LP
LSI SAS3442E-R Low Profile
PCIe x4,
int: 4 port ext: 4 port
max. 1x per system

S26361-F3628-E201
SAS Controller 6Gb/s 8 port LP
LSI SAS9200-8e LP
PCIe 2.0 x4,
ext: 8 port
max. 1x per system

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Sections 9 X **Disk Array**

SATA Configuration

SATA Base Units contains a 6-port (5 in use) on-board SATA controller supporting RAID Levels 0, 1, 10
SATA RAID is not supported by VMWare

SAS Configuration

you can choose between three different SAS controllers for the Base Unit:
- LSI 1064e / 2008 based Modular RAID 0,1 (IME)
- LSI 2108 based Modular RAID 0, 1, 10, 5, 50, 6, 60

if you want to use SAS harddisks one Controller is required

Controller for LFF (3.5") or SFF (2.5") HDD - **mandatory for SAS HDD**

1x

S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2008
LSI MegaRAID
no Cache, no BBU
RAID 0, 1 & 1E
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x4
Low-profile MD2 form factor
max. 1x per system

S26361-F3554-E512
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2108
LSI MegaRAID
512MB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional BBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x4
Low-profile MD2 form factor
max. 1 per system

as soon as available

S26361-F3669-E1
RAID Ctrl SAS 6G 8port internal
Based on chip LSISAS2208
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
optional FBU
Support for 3Gb/s and 6Gb/s
SATA and SAS hard drives
PCIe x8
Low-profile MD2 form factor
max. 1x per system

Feature Option for 2208

S26361-F3669-L660
RAID Key FastPath
License Activation Key
for 1 Controller

S26361-F3669-L661
RAID Key CacheCade
License Activation Key
for 1 Controller

S26361-F3257-E255
Cache Battery Backup Unit
max. 1x per Controller

S26361-F3669-E100
TFM Module for FBU option
(flash and FBU control logic)
max. 1x per Controller

S26361-F3669-E125
Flash Backup Unit
with 25cm cable set
max. 1x per Controller

Only one BBU / FBU per system RX100 S7p

Upgrade RAID controllers

RAID Controller Loose delivery
F3554-L8/L512, F3669-L1)
requires RAID KIT

RAID Upgrade Kit
SATA / mini-SAS Cable
S26361-F4414-L2

Upgrade BBU / FBU

Cache Battery Backup Unit
S26361-F3257-L210

S26361-F3669-L100
TFM Module for FBU option
(flash and FBU control logic)
max. 1x per Controller

S26361-F3669-L110
Flash Backup Unit
with 25cm, 55cm, 70cm cable set
max. 1x per Controller

Only one BBU / FBU per system RX100 S7p

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Section X Fibre Channel

No mix and match of different FC Controllers possible.

All controllers for the connection of external storage system are delivered without cables. For the configuration of external cabling see the configurator for external storage system.

Fibre Channel Controller for external storage systems

1x

as soon / as available	**S26361-F3631-E201**	as soon / as available	**S26361-F3631-E202**
	8GBit/s FC Controller		8GBit/s FC Controller
	Qlogic QLE2560, low profile bracket		Qlogic QLE2562, low profile bracket
	1 channel 8GBit/sec FC Controller LC Interface for 50µm Fiber		2 channel 8GBit/sec FC Controller LC Interface for 50µm Fiber
	PCIe x8, 170mm		PCIe x8, 170mm
	max. 1x per system		max. 1x per system

For Fibre Channel SAN also other componets like switches, SFPs and optical wires are orderable (for details see price liste)

Loose Component: S26361-F3631-L201

Loose Component: S26361-F3631-L202

as soon / as available	**S26361-F3961-E201**	as soon / as available	**S26361-F3961-E202**
	8GBit/s FC Controller		8GBit/s FC Controller
	Emulex LPe1250, low profile bracket		Emulex LPe12002, low profile bracket
	1 channel 8GBit/sec FC Controller LC Interface for 50µm Fiber		2 channel 8GBit/sec FC Controller LC Interface for 50µm Fiber
	PCIe x4, 170mm		PCIe x4, 170mm
	max. 1x per system		max. 1x per system

Loose Component: S26361-F3961-L201

Loose Component: S26361-F3961-L202

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Section # XI Communication / Network — **Communication / Network Low Profile**

2x Gigabit Ethernet Contr.
onboard
Intel LAN 82579 (Lewisville)
Intel LAN 82574 (Hartwell)
ext: 2x RJ 45 connector

Teaming: Failover, Load Balancing
The Intel LAN Controllers 1000GT, 1000MF, 1000PT, 1000PF
can be used with the on-board controller in Teaming Mode
Using **VMWare**, only one of both onboard LAN Ports is supported.

2 x PCIe G2 x16 / x4 (wired x1)

max 2

A) PCI-Express Desktop Adapter

S26361-F3516-E201 (Shelter Island)
Gigabit Ethernet Controller 1000TX LP
Eth Ctrl 1x1Gbit PCI-e Gigabit CT DT Cu LP
Intel® Gigabit CT Desktop Adapter
PCIe x1
ext: for RJ45-connector, Cat 5
max. 2x per system

B) PCI-Express Adapter 1000SX

S26361-F3242-E201 (Sheepshead Bay)
Gigabit Ethernet Contr. 1000SX
Eth Ctrl 1x1Gbit PCI-e Pro/1000PF LC LP
Intel PRO/1000 PF Server Adapter
PCIe x4
ext:LC-connector
max.2x per system

S26361-F3610-E202 (Kawela dual)
Gigabit Ethernet Controller Dual 1000TX LP
Eth Ctrl 2x1Gbit PCIe x4 KN Cu lp
Intel Kawela based 2 port Server Adapter
PCIe x4, Low Profile
ext: for RJ45-plug, Cat 5
max. 2x per system

Loose delivery with:
S26361-F3610-L502

C) Quad Port PCIe Adapter 1000TX

S26361-F3611-E201 (Barton Hills Quad)
Gigabit Ethernet Controller Quad 1000TX LP
Eth Ctrl 4x1Gbit PCIe x4 BH Cu lp
Intel Barton Hills based 4 Port Server Ad.
PCIe x4, low profile
ext: for RJ45-plug, Cat 5
max. 2x per system

Loose delivery with:
S26361-F3611-L501

D) 10Gb Dual Port PCIe Adapter 1000TX

S26361-F3629-E202
(D2755)
10 Gigabit Ethernet Contr. dual port SFP+
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
Intel Niantic based dual port 10Gb NIC
PCIe x8, Low Profile, Low Profile Bracket
ext: 2x SFP+ cage
max. 1x per system

Loose delivery with:
S26361-F3629-L502

S26361-F3986-E3
SFP+ Module MMF 10GbE LC
SFP+ module for 10 Gbit
Ethernet FO cabling
ext:LC-connector
max. 2x per adapter

The SFP+ Module is also available as loose delivery
S26361-F3986-L3
Instead SFP+ Modules, SFP+ twinax cables from
the switch vendors may be used

Fibre Channel over Ethernet

as soon as available

S26361-F3592-E202
10GBit/s CNA
Emulex
OCe10102
2 channel 10GBit/sec CNA
SFP+ Cage
PCIe x8, 170mm
max. 1x per system

All controllers for the connection of external storage systems are delivered without cables.
For the configuration of external cabling see the configurator for external storage systems.

S26361-F3592-E108
SFP+ Module MMF 10GbE LC
SFP+ module for 10 Gbit
Ethernet FO cabling
ext:LC-connector
max. 2x per controller

The SFP+ Module is also available as loose delivery
S26361-F3592-L108
Instead SFP+ Modules, SFP+ twinax cables from
the switch vendors may be used

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Section # XII System Management Products (RemoteView)

S26361-F1790-E242
iRMC3 advanced pack
integrated remote mgmt. controller
activation key for
graphical console redirection
and remote media redirection
max. 1x per system

iRMC S3 (integrated Remote Management Controller) onboard server management with dedicated 10/100/1000 Service LAN-port and integrated graphics controller.
The Service LAN-port can be switched alternatively on standard Gbit LAN port

Loose delivery
iRMC3 advanced pack
S26361- F1790-L242

S26361-F2557-E204
Local Service Panel incl. mount. kit
Customer Self Service
CSS module incl. mounting kit
0.5" x 5.25"
max. 1x per system

S26361-F2571-E37
Opt. Front VGA + Service LAN
Front service LAN Port
For local maintenance / console redirection,
Integrated in front (operating panel)
max. 1x per system

Loose delivery
Local Service Panel
S26361-F2557-L204
Opt. front VGA + Front LAN
S26361-F2571-L37

Section # XIII Miscellaneous

Options and other peripherals
For other options, refer to SystemArchitect and Pricelist
These options are supplied lose with the shipment
For suitable peripherals for this product, please refer to SystemArcitect

Section # XIV Country specific power cord / kits

S26361-F1452-E100
REGION KIT APAC/America/EMEA/India
For Shipments to Asia pacific, America, EMEA or India regions
1x per system

S26361-F1452-E110
REGION KIT JP
For Shipments to Japan regions
1x per system

Power cord has to be ordered separately

max. 2x

Power cord options (1x per PSU)	
T26139-Y1968-E100	Powercord for rack, 4m, grey, **IEC 320 C13 -> C14 connector**
T26139-Y1742-E10	USA, Canada, 1.8m, grey
T26139-Y3850-E10	Option "no powercord", for Countries without specific cable orderable like e.g. China

End PRIMERGY RX100 S7p

Change Report

Date	Order number	Changes
2012-04-27	S26361-F3301-E112	Update on Energy Star
2012-04-20		FCOE / FC HBAs / NVS300 / cougar 3 set to as soon as available
2012-03-29	S26361-F3298-E/L32/64	SSD 32/64 GB removed since EOL
2012-03-28	S26361-F2735-E175	Rack Mount Kit F1-C S7 LV (follower for *-E145; G. Hartmann)
2012-03-23		Cougar 3 updated (A. Bob)
2012-03-23		Correction of CPU Wattage in Energy Star sheet
2012-03-21		Karakas: HDD update- 6G F-numbers for 2.5" and 3.5" BC-SATA included (3G removed)
2012-01-25		CPU Update
2011-12-21	S26361-F4482-E114	SAS HD 6G 144GB - no longer available
2011-11-16	S26361-F3298-E64	SSD64GB added
2011-10-01	S26361-F3601-E250	new BC SATA HD - now available
2011-10-01	S26361-F3298-E64	64 GB SSD - no longer available
2011-08-09		Celeron CPUs with FCS in September 2011 added
2011-07-29	S26361-F4482-E190	new 6Gb SAS-HD 900GB - as soon as available
2011-06-30	S26361-F3297-E*	Removal of 2.5" ECO SATA
2011-06-01		First release